

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-2 (Canceled).

Claim 3 (Currently Amended): A display device comprising:

a plurality of self-luminous elements arrayed to form a display screen; and

a driving circuit which causes drive currents to flow in said self-luminous elements according to pixel signals, said driving circuit being configured to restrict the drive currents flowing in said self-luminous elements upon increase in the total sum of the drive currents[[]],

wherein said driving circuit comprises,

a D/A conversion circuit which digital-to-analog converts the pixel signals;

a gradation reference circuit which generates a predetermined number of gradation reference signals which are referred to by said D/A conversion circuit; and

a correction circuit which detects the total sum of the drive currents flowing in said self-luminous elements and controls said gradation reference circuit to produce a predetermined number of gradation reference signals whose levels are uniformly corrected according to the total sum,

wherein said gradation reference circuit includes a voltage division circuit which comprises a plurality of resistor elements connected to output a predetermined number of gradation reference voltages whose voltage ratios to a reference power supply voltage differ from each other, as the predetermined number of gradation reference signals, respectively.

Claim 4 (Currently Amended): A display device comprising:

a plurality of self-luminous elements arrayed to form a display screen; and
a driving circuit which causes drive currents to flow in said self-luminous elements according to pixel signals, said driving circuit being configured to restrict the drive currents flowing in said self-luminous elements upon increase in the total sum of the drive currents[.].

wherein said driving circuit comprises,

a D/A conversion circuit which digital-to-analog converts the pixel signals;
a gradation reference circuit which generates a predetermined number of gradation reference signals which are referred to by said D/A conversion circuit; and
a correction circuit which detects the total sum of the drive currents flowing in said self-luminous elements and controls said gradation reference circuit to produce a predetermined number of gradation reference signals whose levels are uniformly corrected according to the total sum,

wherein said gradation reference circuit includes a current mirror circuit which comprises a plurality of active current mirror elements connected to output a predetermined number of gradation reference currents whose current ratios to a reference power supply current differ from each other, as the predetermined number of gradation reference signals, respectively.

Claim 5 (Previously Presented): The display device according to claim 3, wherein said self-luminous elements are formed of organic electro-luminescence elements.

Claim 6 (Previously Presented): The display device according to claim 4, wherein said self-luminous elements are formed of organic electro-luminescence elements.